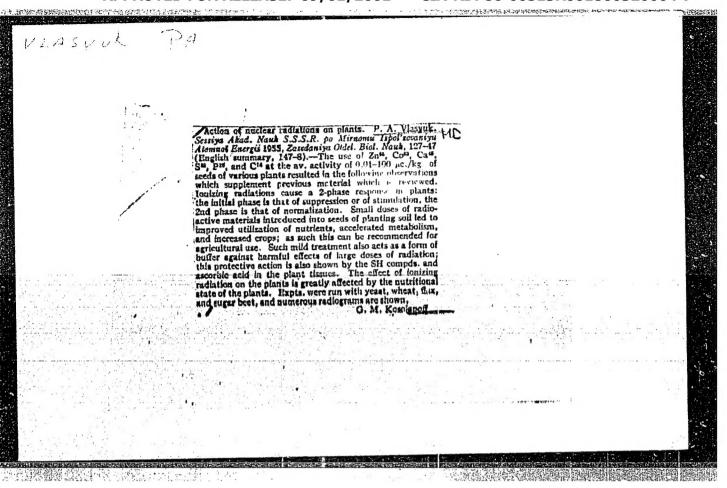
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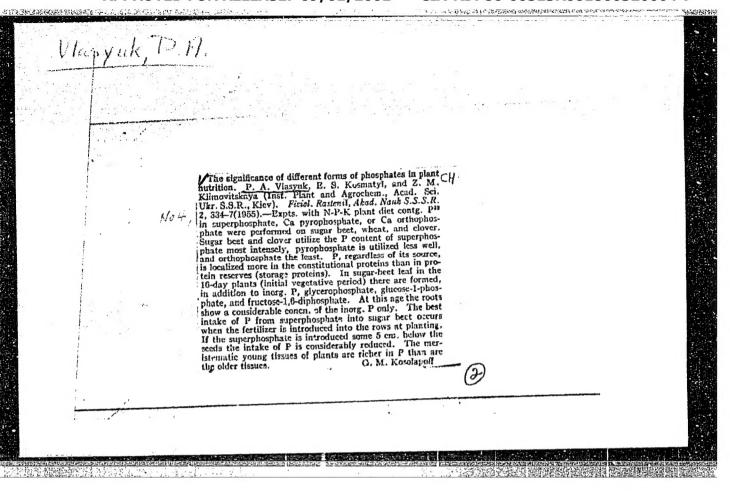
VIASYUK, P.A., otvetstvennyy red.; VASILENKO, A.A., red.; YUKHIMCHUK, F.F., kend.sel'skokhozyaystvennykh nauk, red.; ZELLOMAN, S.B., kend. tekhn.nauk, red.; KUKHARKHKO, N.I., kand.biol.nauk, red.; MULYARSKIY, B.Ya., red.izd-va; SIVACHENKO, Ye.K., tekhn.red.

[Improving techniques of using fertilizers] Usovershenstvovanie tekhniki vneseniia udobrenii. Kiyev, 1955. 255 p. (MIRA 11:6)

1. Akademiya nauk URSR. Kiyev. Rada po vyvcheniyu produktivnykh sil URSR. 2. Deystvitel'nyy chlen Akademii nauk USSR i Vsescyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vlasyuk)
3. Deystvitel'nyy chlen Akademii nauk USSR (for Vasilenko)

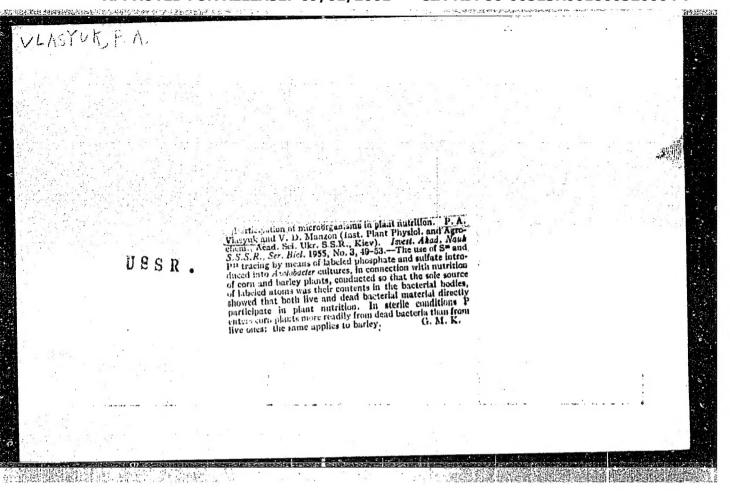
(Fertilizers and manures)





"APPROVED FOR RELEASE: 09/01/2001

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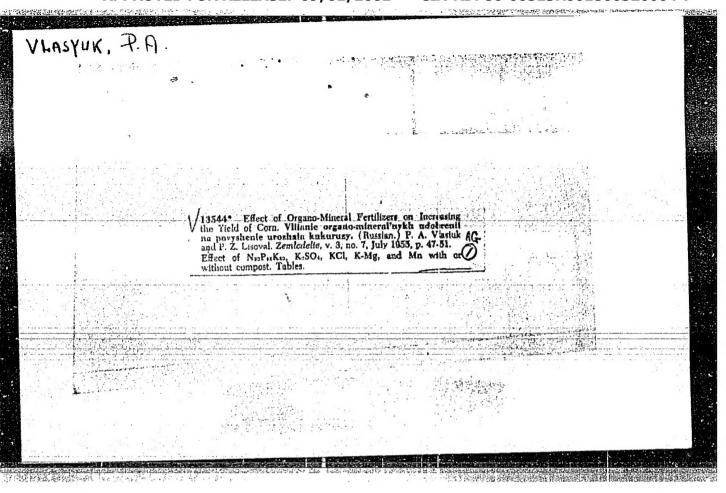


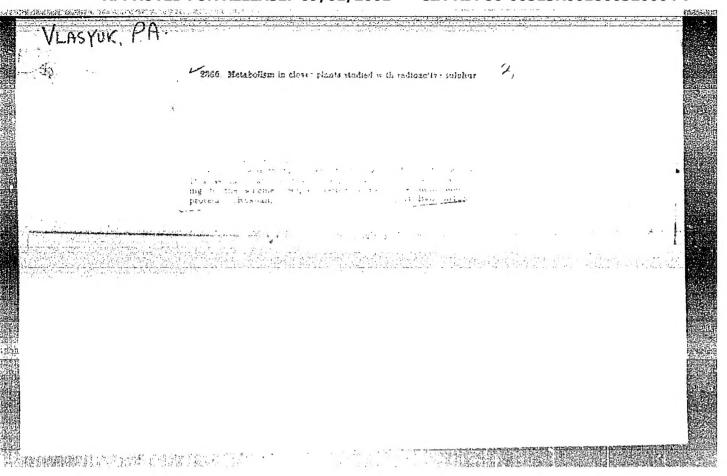
VLRsyuk, P. H.	The insctivation of urease by compounds of manganese as a preventative for the loss of urea mitrogen. P. A. Vlasyuk and A. V. Manorik. Dopovidi Akad. Nauk Ukr. K.S.R. No. 4, 364-7 (1955) (Russian summary).—Test materials were MusO ₄ and waste products of Mn mining. MnsO ₄ was added at the rate of 0.25 (I) and 2.5 g./l. (III), and the waste material at the rate of 7.5 g./l. (III). Untreated urine was used as control (IV). Original urea-N content was 3.45 g.; of days after the addn. of the reagents urea N in IV was 1.20 and 10 days later, 0.90 g., or losses in N of 65.2 and 74.0%. In I the urea-N values were in 6 days 3.40 and in 10 days 3.38 g. or losses of 1.5 and 2.1%. In II urea N was in 5 days 3.20 and in 10 days 3.30 g. or a loss of 1.8 and 1.8%. In III urea N was in 5 days 3.42 and in 10 days 3.40 g. or a loss of 0.9 and 1.5%.	
Inst. 6	Plant Physiology & agrochem, A	5 UKN 55R-

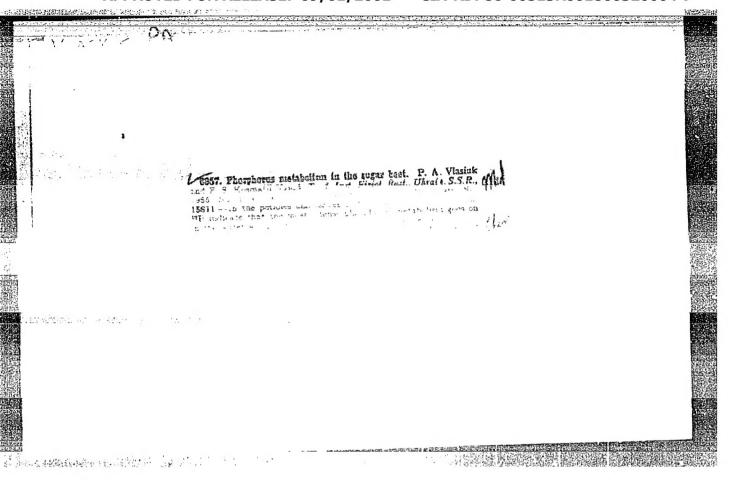
VIASYUK, P.A., MANORIK, A.V.

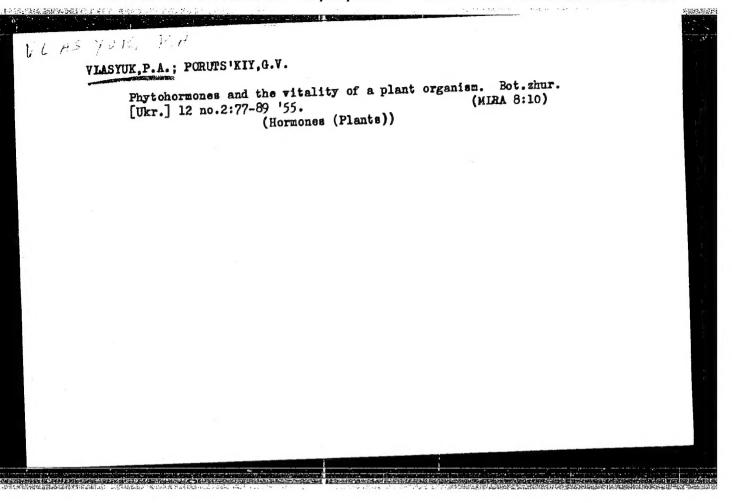
Increasing the biological activeness of the soil subjected to enriched composts. Dop. AN URSR no.5: 500-504 155. (MIRA 9:3)

1. Diyaniy chlen AN URSR (for Vlasyuk); 2. Institut fiziologii roslin ta agrokhimii AN URSR.
(Compost)





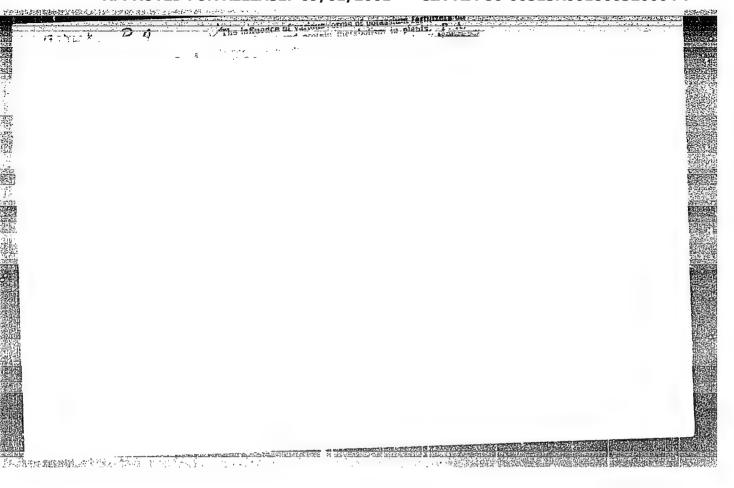


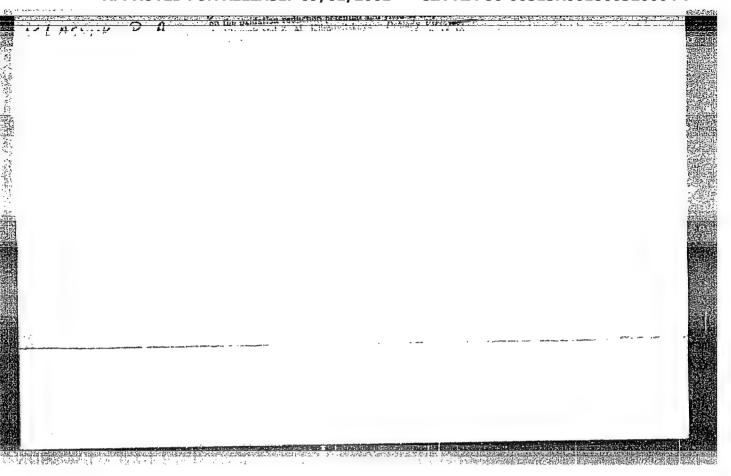


VLASYUK, P.A.; LISOVAL, P.Z.; DOBROTVORS'KA, O.M.

Properties of organic and mineral composts and their effect on the yield of sugar beets. Mikrobiol. zhur. 17 no.4:15-21 '55 (MIRA 10:5)

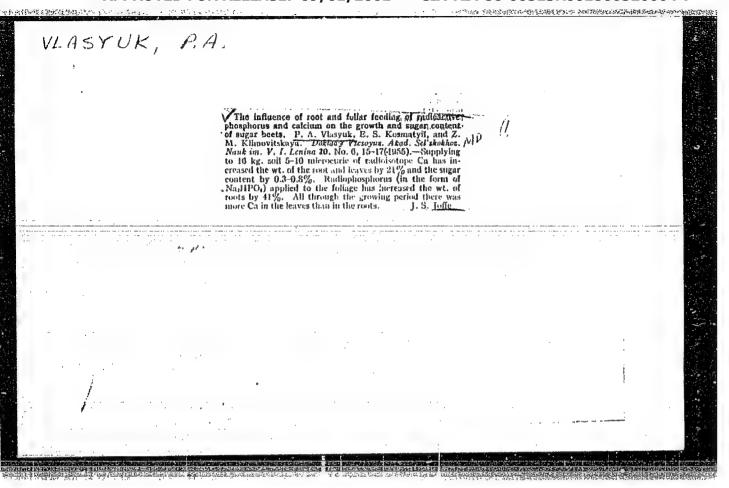
1. Z Institutu fiziologii roslin ta agrokhimii AN URSR (COMPOST) (SUGAR BERTS)





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VLASYUK,	P.A.			•	
·- ·· · · · · · · · · · · · · · ·		**Radioactive Isotopes and the Development of Radioaktivnye izotopy i razvit'ie rastenti. (Bussian Vlasiuk. **Nauke i z.,dzii. v. 22. no. 10, Oct. 1935. p. Effect of treating lupine seeds with ionizing radiation and of radioactive P isotopes on wheat seeds, etc.	f Plants. .) P. A. 21-22. is of Zu,		38.5
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VLASTUK, P.A.

Atomic energy in the service of agriculture. Visnyk AN URSR 26 no.9:35-41 S'55. (MLRA 8:11)

1. Diysniy chlen Akademii nauk URSR (Radiobiology) (Agriculture)

VLASYUK, P.A.

I.V.Michurin's life and work; on the 100th anniversary of his birth. Visnyk AH URSR 26 no.10:3-11 0 155. (MLRA 9:1)

1.Diyan.chlen Akademii nauk URSR i Vsesoyuznoy Akademii Sil'akogospodarchykh nauk imeni Lenina. (Michurin, Ivan Vladimirovich, 1855-1935)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320004-7

VLASYUK, PA

USSR/Biology - Plant physiology

Card 1/1 Pub. 22 - 51/53

Authors : Vlasyuk, P. A., Act. Memb. Acad. of Sc., Ukr. SSR.; and Grodzinskiy, D. M.

Title Repeated utilization of phosphorus and sulfur by buckwheat

Periodical : Dok. AN SSSR 102/4, 845-847, Jun 1, 1955

Abstract Biological data are presented on the re-utilization of P and S by

buckwheat. Five references: 3 USSR and 2 USA (1932-1950). Tables.

Institution: Acad. of Sc., Ukr. SSR, Inst. of Plant Physiology and Agricultural Chem.

Submitted : January 8, 1955

VLASYUK, P.A.; GRODZINSKIY, D.M.

Trepisms of plant roots toward nuclear radiations. Dokl.AN SSSR 105 no.6:1358-1360 D '55. (MLRA 9:4)

1.Deystvitel'nyy chlen AN USSR (for Vlasyuk).2.Institut fiziologii rasteniy i agrekhimii Akademii nauk USSR.

(Roots (Botany)) (Plants, Effect of radiation on)

LITTIFIE VLASYUK, P.A.

96. Book Published on Uses of Radioisotopes in Studies of Plant Nutrition

Mikroelementy i Radioaktivnye Izotopy v Pitanii Rasteniy (Microelements and Radioactive Isotopes in Plant Nutrition), by Academician Petr Antipovich Vlasyuk, Academy of Sciences Ukrainian SSR, Kiev, Publishing House of Academy of Sciences Ukrainian SSR, 1956, 116 pp

Recent advances in scientific research in the fields of study and use of the microelements and radioactive substances in agriculture are discussed.

The chapter headings and pagination are as follows: foreword (3-4); improving conditions of plant nutrition by manganese fertilizers (5-21); superphosphate containing manganese -- a new type of fertilizer (22-26); significance of manganese microelement in increasing plant viability (27-38); selective biological properties of plants in relation to ultramicroelements (39-51); content of mobile forms of zinc, boron, cobalt, and copper microelements in soils of the Ukrainian SSR (52-59); use of tracer atoms for establishing methods for improving plant nutrition (60-75); effect of nuclear radiation on plants (76-90); effect of small doses of ionizing radiation from radioactive isotopes of zinc and cobalt on plants (91-104); and conclusion (105-114). (U)

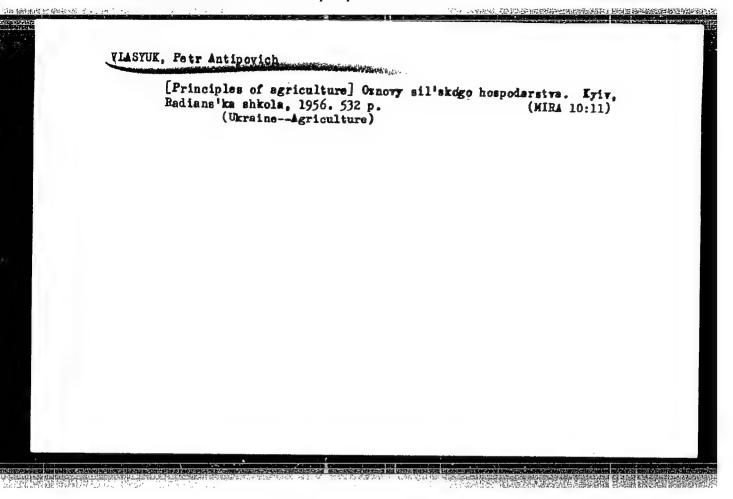
ZINOV'YEVA, Khristina Gavrilovna; VLASYUK, P.A., akademik, red.;

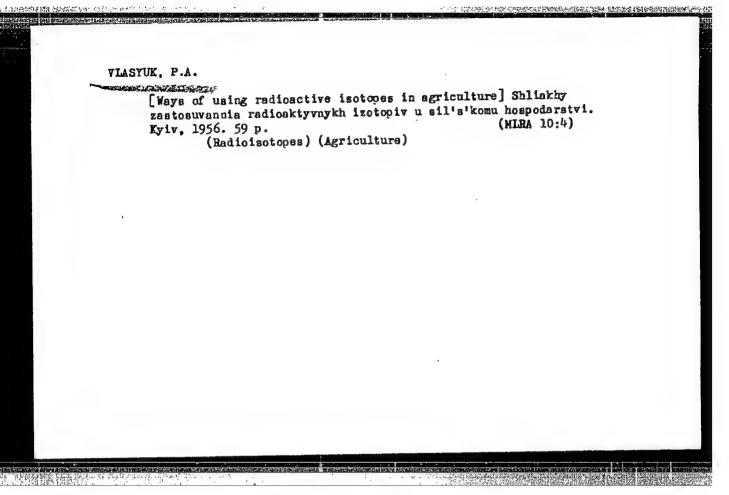
ICMATENKO, A.I., red.; KVITKA, S.P., tekhn. red.

[Azotobacter and farm plants]Azotobakter i sel'skokhoziaistvepnye rasteniia. Kiev, Gos.izd-vo sel'khoz.lit-ry, USSR, 1962.

(Azotobacter) (Field crops)

(Azotobacter) (Field crops)





SPIVAK,M.S., glavnyy redaktor; BELOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'GHENKO, I.K., redaktor; KOVAL, A.G., redaktor; KHYLOV, A.F., redaktor; PUKHAL'SKIY, A.V., redaktor; SIDORRNKO, A.P., redaktor; FEDCHENKO, A.M., redaktor; AEGELINA, P.M., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATSKAYA, G.Ye., redaktor; VASILENKO, A.A., redaktor; YLASYUK, P.A., redaktor; GORODNIY, N.G., redaktor; DRMIDENKO, T.T., redaktor; DUBKOVETSKIY, F.I., redaktor; KIRICHENKO, F.G., redaktor; LITOVGHENKO, G.P., redaktor; OZERNYY, M.Ye., redaktor; PERSHIN, P.N., redaktor; POPOV, F.A., redaktor; POSMITNYY, M.A., redaktor; PSHENICHNYY, P.D., redaktor; RADCHENKO, B.P., redaktor; ROMANENKO, I.N., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVSKIY, A.N., redaktor; TSYBENKO, K.Ye., redaktor; KOVAL'SKIY, V.F., tekhnicheskiy redaktor

That the lette

[Practical collective farm encyclopedia] Kolkhoznaia proisvodstvennaia entsiklopediia. Izd.2-oe, ispr. i dop. Kiev, Gos.izd-vo sel'khoz. lit-ry USSR. Vol.1. Abrikos - liutserna. 1956. 688 p. (MLRA 10:9) (Agriculture-Dictionaries)

SPIVAK, M.S., golovnyy redaktor; BILOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVAL', O.G., redaktor; KRILOV, O.F., redaktor; PUKHAL'S'KIY, A.V., redaktor; SIDORENKO, O.P., redaktor; FEDCHENKO, O.N., redaktor; ANGELINA, P.M., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATS'KA, G.E., redaktor; VASILENKO, A.O., redaktor; VIASYUK, P.A., redaktor; GORCONIY, M.G., redaktor; DEMIDENKO, T.T., redaktor; DUBKOVETS'KIY, F.I., redaktor; KIRICHENKO, F.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNIY, M.O., redaktor; PERSHIN, P.M., redaktor; POPOV, F.A., redaktor; POSMITNIY, M.O., redaktor; PSHENICHNIY, P.D., redaktor; RADCHENKO, B.P., redaktor; POMANENKO, S.S., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVS'KIY, O.N., redaktor; TSIBENKO, K.O., redaktor; SHCHERBINA, O.P., redaktor; KRAVCHENKO, M.F., tekhnichniy redaktor

[Collective farm encyclopedia] Kolhospna vyrobnycha ensyklopediia. Vyd. 2-e, perer. i dop. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi lit-ry URSR. Vol.1. Abrykos - Liutserna. 1956. 756 p. (MIRA 9:9) (Agriculture--Encyclopedias and dictionaries)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320004-7"

USSR/Cultivated Plants. Cereals.

М

Abs Jour: Ref Zhur-Bicl., No 17, 1958, 77625.

Author : Vlasyuk P. A.; Lisoval, P.Z.

Inst : AS UKrSSR.

Title : Influence of Organic-Mineral Fertilizers on

Harvests of Corn.

Orig Pub: V sb.: Vopr. razvitiya s.-kh. Poles'ya. Kiev,

AN USSR, 1956 (1957), 40-49.

Abstract: In the Institute of Physiology of Plants and

Agrotechny AS UkrSSR in 1953-1954, the influence was studied of different types of fertilizers on harvests of corn, placed in crop-rotation after winter wheat. On meadow-chemozem soils, organic-mineral fertilizers contributed to the increase of the grain harvest of corn by

Card : 1/3

37

M

USSR/Cultivated Plants. Cereals.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77625.

14.1-15.7 c/ha with harvests in the control (without fertilizer) 39.1 c/ha. Application of 5 t/ha of organic-mineral composts in a nest with sowing proved the most effective and assured on weakly-podzolic, sandy soils the obtaining of a grain harvest of corn of 81.6 c/ha with harvest in the control 39 c/ha. On weakly podzolic, lightly sandy soils the application of 5 t/ha of humus in the nest with sowing assured the addition of harvest of 7 c/ha with harvest in control 42.1 c/ha. With an organic-mineral mixture with the same control/grain-harvest increase of 24 c/ha was obtained. Tillage of green mass of harvested lupine with combined

Card : 2/3

 USSR/Cultivated Plants. Cereals.

M

Abs Jour: Ref Zhur-Bicl., No 17, 1958, 77625.

application of 3 t/ha of organic-mineral mixture in a nest on weakly podzolic sandy soil gave a harvest of green mass of corn of the Odessa 10 variety in 1954 of 1087 c/ha. -- N. P. Fedorova.

Card : 3/3

38

USSR/Soil Science. Organic Fertilizers.

J-4

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24759.

Author : Vlasyuk, P.A.; Manorik, A.V.

Inst Title

: Utilization of Enriched Composts for Increasing

Harvests of Agricultural Crops.

Orig Pub: V sb.: Vopr. razvitiya s. kh. Poles'ya Kiyev, AN

USSR, 1956 (1957), 73-80.

Abstract: The Institute of Plant Physiology and Agricultural

Chemistry AN USSR utilized wasts of the brown coal industry for making composts with nanure; content 0.53% N, 0.63% P, and 0.39 $\rm K_2O$. In experiments for 6 mos. of 1951-1952 with storing of nanure without the wastes of brown coal industry, the average

Card : 1/2

23

USSR/Soil Science. Organic Fertilizers.

J-4

Abs Jour; Ref Zhur-Biol., No 6, 1968, 24759.

losses of N constituted 13%, while, when compost was made with the wastes, the average content of N increased by 16.5%. The content of hydrolyzed N and of fixed ammonium was considerably increased by activity of compost. In the 1954 experiments on the application of p32, it was found that phosphorus from phosphorites turns to forms utilizable by plants. The increase of the sugar beet harvest due to the making a compost of manure with mineral fertilizers and brown coal constituted 69 c/ha., with a yield of 339 c/ha without addition of brown coal in the compost. Making a compost of manure with wastes of the brown coal industry jointly with phosphorus fertilizers and wastes of the manganese-ore industry proved most effective.

Card : 2/2

VIASYUK, X.A.; MANORIK, A.V.

Increasing peat efficiency by strengthening its biological activity. Dop.AN URSR no.1:79-84 '56. (MIRA 9:7)

1.Diyaniy chlen AN URSR i VASGNIL (for Vlasyuk).2.Institut fiziologii roslin ta agrokhimii AN URSR.
(Peat)

VLASYUK, P.A.

USSR/Soil Science - Physical and Chemical Properties of Soils. J-2

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5767

Author : Vlasyuk, P.A.

Inst : Academy of Sciences LatvSSR

Title : The Content of Extractable Forms of Zinc, Boron, Cabalt,

and Copper in the Soils of the Ukrainian SSR.

Orig Pub : Mikroelementy v s. kh. i meditsine, Riga, Akad Nauk Latv-

SSR, 1956, 97-103

Abstract : The microelement content of the turf-podzolic soils, gray

forest soils, chernozems, solonetz and solonchak soils of Poles'ye, the right- and left-bank soils of the (Losostep') Wooded Steppe, the southern steppe regions and the Trans-Carpathian region of the UKSSR is examined. The content of extractable zinc in the soils reflects its content in the soil-forming plants, while its distribution in the soil

Card 1/3

USSR/Soil Science - Physical and Chemical Properties of Soils.

J-2

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5767

is found mainly in the horizons below the tillable level, while with the chernozems it is found in the tillable horizon. In the turf-podzolic and gray forest soils there is 0.23-0.43 mg. of Co per kilogram of soil (dry weight). In some gray forest soils and podzolized chernozems the Co content reaches 0.6 mg., and in the meadow-chernozem cultivated soils it reaches 2.3 mg. Most of the soil variations in the UkSSR, with the exception of the peat and turf-podzolic soils, are fully supplied with Cu. The turf-carbonate and mountain meadow soils of Trans-Carpathia, and also the solonetz soils, contain especially large quantities of it; the chernozems and dark chestnut soils contain less, while the gray forest soils and turfpodzolic soils contain the lowest amounts. The Cu is most extractable in all types of soil where the mechanical composition is light, less so in heavy argillaceous soils, and least of all in peat soils.

Card 3/3

CIA-RDP86-00513R001860320004-7

USSR / Soil Science. Mineral Fertilizers.

J-4

Abs Jour: Ref Zhur-Eiol., No 8, 1958, 34425.

Author : Vlasyuk, P. A.

Inst : AS LatySSR - Institute of Physiology of Plants

and Agrochomistry of AS UkrSSR.

Pitlo : Improvement of Conditions of Mutrition of Flants

by Moans of Manganic Traco Fortilizors.

Orig Pub: V sb.: mikroelomenty v s.kh. i meditsine, Riga,

AN LatvSSR, 1956, 111-124.

Abstract: According to numerous laboratory tests and field

experiments, the positive action of lan on respiration, photosynthesis, activity of fermints, content of chlorophyll, etc., has been shown; in this connection, a considerable increase in yield and quality has been obtained in the following plants: sugar beets, winter wheat, corn, oats,

Card 1/2

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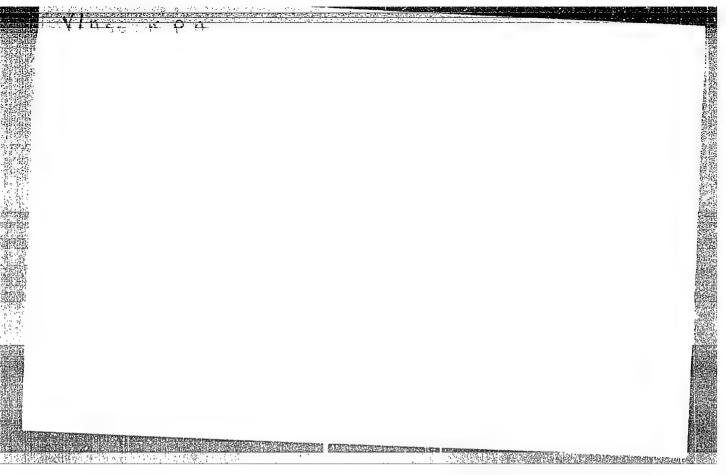
USSR / Scil Science. Mineral Fortilizers.

J-4

Abs Jour: Rof Zhur-Biol., No 8, 1958, 34426.

Abstract: buckwheat, millet, tobacco, potatoes, cucumbers, tomatoes, cabbago, eggplant, heap, flax, garden strawberry and strawberry. Increase of the action of nitrification and ammonification by bacteria in the soil, as well as the inactivation of the ferment of urease in the liquid manure, has been established; in this connection, the decomposition of the urea is removed, and lesses of N plants is particularly well affected by manganized Ps and by manganic slag. The task has been accomplished in the Institute of Physiology of Plants and Agrochemistry of the Academy of Sciences Ukrssn.—A. P. Shcherbakov.

Card 2/2



VLASYUK, P. H.		
Polar differentiation and alteration of plants for flowering. P. A. Vicenski	ofern visiting	
(Plant Physiol. Agrorment Inst., Kier Nauk S.S.S.R., Ser. Biol. 1956, No. 1, 84 with cotton plants (high-Mn requirement) tequirement) were made in respect to con-	d G. V. Porutskil v). Isrest. Akad. MD -96.—The studies and corn (low-Mn tent of dry matter	
(Plant Physiol. Agrorment Inst., Kie Nauk S.S.S.R., Ser. Biol. 1956, No. 1, 84 with cotton plants (high-Mn requirement) requirement) were made in respect to con and H ₂ O content in the progressive segme plants at various stages. Vernalization to of for cotton and 40° for corn. Vernal MnSO ₄ is more pronounced in cotton to supply tends to increase the height periodic of dry matter and polarity in cotton, while temp. is more important for corn. The periodic of the supply tends to increase the height periodic of matter and polarity in cotton, while temp. is more important for corn. The periodic of matter in the steins can be used.	d G. V. Porutskil y). Isrest. Akad. 1-96.—The studies and corn (low-Mn tent of dry matter mts of the growing temp. limits reach dizing activity of tan in corn. Mn city of the content the vernalization	

USSR/Genral Division - General Problems. Philosophy.

A-1

Abs Jour

: Ref Zhur - Biologiya, No 7, 10 April 1957, 25639

Author:

: Vlasyuk, P.A.

Inst

: Academy of Sciences UkSSR: Inst. of Agric. Biology; Inst.

of Plant Physiology and Agric, Chemistry; Inst. of

Entomology and Phytopathology.

Title

: Increasing the Role of Agricultural Science in the

Development of Agriculture in the Ukraine.

Orig Pub

: Visnik AN URSR, 1956, No 2, 27-38

Abst

: The Academy of Sciences UkSSR is studying a number of important problems connected with increasing crop yields and improving productivity in animal farming in the light of the directives of the XXth Congress of the CP USSR. The Institute of Plant Physiology and Agricultural Chemistry has developed a number of new fertilizing techniques applicable to various areas of the Ukraine and variety of

Card 1/2

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USSR/General Division - General Problems. Philosophy.

Methodology.

A-1

Abs Jour

: Ref Zhur - Biologiya, No 7, 10 April 1957, 25639

crops. 1955 marked the beginning of studies in the USSR of a new type of fertilizer: manganated granular superphosphate, which increases potato yield by 24 cent/hect, sugar beet yield by 20 cent/hect, corn yield by 6 cent/hect, etc. The Institute of Entomology and Phytopathology is developing and putting into use new techniques in fighting pests and weeds. The Institute of Agricultural Biology is engaged in developing new crops. Soil scientists are working on problems of agricultural technique and fertilizers. Extensive use is being made of tracer element techniques. Ikrainian scientists have assumed the responsibility of pursuing further the theoretical problems connected with the use of atomic energy in farming.

Card 2/2

VIASGUK /1A.

USSR/Microbiology. Soil Microbiology

F-3

Abs Jour:

: Ref Zhur-Biologiya, No 1, 1957, 576

Author Inst

: P. A. Vlasyuk and V. D. Manzov

Title

: On the Application of Azotobacter for the Enrichment of Composts with Atmospheric

Nitrogen

Orig Pub

: Agrobiologiya, 1956, No 2, 89-97

Abstract

It was established that azotobacter when introduced into composts (with phosphorite flour) of manure and straw, and into composts made of peat became well adjusted, absorbed nitrogen from the atmosphere, and enriched with it the medium. In the presence of azotobacter losses of nitrogen from the composts of

Card 1/2

USSR/Microbiology. Soil Microbiology

F-3

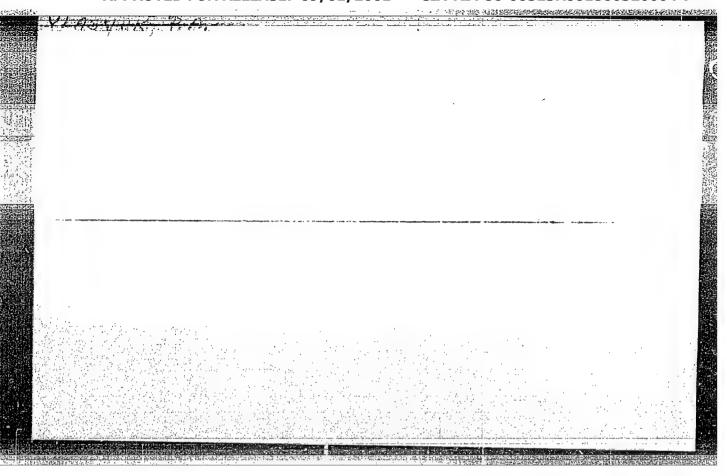
Abs Jour

: Ref Zhur-Biologiya, No 1, 1957, 576

Abstract

: manure dropped from 37.8 to 18.9%, and in composts from straw from 28.2 to 11.3%. In peat composts the nitrogen content as compared with the original increased from 3.2 to 10.7%, depending on the composition of the composts. On the introduction of the composts infiltrated with azotobacter into the soil, the number of azotobacter in the soil increased and displayed great activity.

Card 2/2



"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320004-7

USSR/Cultivated Flants - Grains.

11-4

Abs Jour

: Ref Shur - Biol., No 9, 1958, 39235

Author

: Vlasyuk, P.A., Poruts'kiy, G.V.

Inst

: AS UkrainianSSR.

Title

: The Importance of Manganese Mutrient for Corn Growing

in the Poles ye Rayons of the UkrainianSSR.

Orig Pub

: Hauk. pratsi vid. sil's'hogosp. nauk. AN URSR, 1956, vyp.

4, 4-15.

Abstract

: Pre-sowing treatment of corn seeds with warm solutions of the salts considerably increases the vitality, yield and productivity of the plants. It contributes to the strengthening of the plant's netabolism and accelerates the passage through the initial stages of growth and development of the organism of the plant. -- Yu.P. Savelenko.

Card 1/1

- 46 -

CIA-RDP86-00513R001860320004-7

VLASYUK, P.A., akademik.

Bifectiveness of organomineral mixtures. Zemledelie 4 no.8:65-72 Ag 156. (MLRA 10:1)

1. Institut fiziologii rasteniy Ukrainskoy SSR. (Ukraine-Fertilizers and manures)

LEGING A LIGHTENIAN MESTERAM DEBUGGAND ATAN

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 29794

Author

: Vlasyuk, P.A., Dolya, V.S.

Inst

: Institute for Plant Physiology and Agrochemistry of the

Academy of Sciences, Ukrainian SSR.

Title

: The Effect of Micronutrients and Bacterial Fertilizers

on the Output of Vegetable Pot Cultures.

Orig Pub

: Dopovidi AN URSR, 1956, No 6, 584-587 (ukr.; rez. russk.)

Abstract

: It has been established as a result of experiments made by the Institute for Plant Physiology and Agrochemistry of the Academy of Sciences Ukrainian SSR in 1954-1955 that the application of micronutrients and phosphorus bacteria during the sprouting period considerably increases the growth of the vegetable cultures, shortens the budding time, that of flowering, of fruit ripening and

Card 1/2

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29794

of cabbage head setting. The largest increase to the tomato yield was observed when phosphorus bacteria and manganese micronutrients were applied. Mn (the yield increased by 59 centners per ha.), Co (by 32 centners per ha.) and Zn (by 21 centners per ha.) proved most effective when raising cabbage sprouts in peat-compost pots.

Card 2/2

- 11 -

USSR/Soil Science. Mineral Fertilizers.

J-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24746.

Author : Vlasyuk, P.A.; Lisovaya, P.Z.

Inst

Title : Application of Kaluszite for Clover and Sugar Beet.

Orig Pub: Udobreniye i urozhay, 1956, No 11, 46-49.

Abstract: In the Institute of Physiology of Plants and Agricultural Chemistry of the AN USSR, in vegetating experiments on meadow-chernozem podsolic soil with red clover in its second year, the best results were given by: potassium sulfate, a mixture of it with potassium chloride and kaluszite. Increases of the yields comprised respectively 110; 88 and 77% in comparison with the baseline contained 16.0% K₂O; 5.5%

MgO and 5.0% Cl. In the experiments with the

Card : 1/2

20

USSR/Soil Science. Mineral Fertilizers.

J-3

Abs Jour: Ref Zhur-Biol:, No 6, 1958, 24746,

sugar beet, potash magnesia gave an increase of 16%, while kaluszite - 144%.

Card : 2/2

VLASYUK, P.A.

UKRAINE/Cultivated Plants - General Problems.

L-1

Abs Four

: Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69179

Author

: Vlasyuk, P.A.

Inst Title

: Basic Methods of Increasing Soil Fertility.

Orig Pub

: Visnik AN URSR, 1956, No 12, 16-24

Abstract

: Some measures of increasing soil fertility in the steppe forestry zone of Udrainian SSR are indicated (introduction of fieldgrass rotation and use of fertilizers).

Card 1/1

USSR/Plant Physiology - General Problems.

Abs Jour : Ref Zhur - Biol., No 18, 1958, 81966

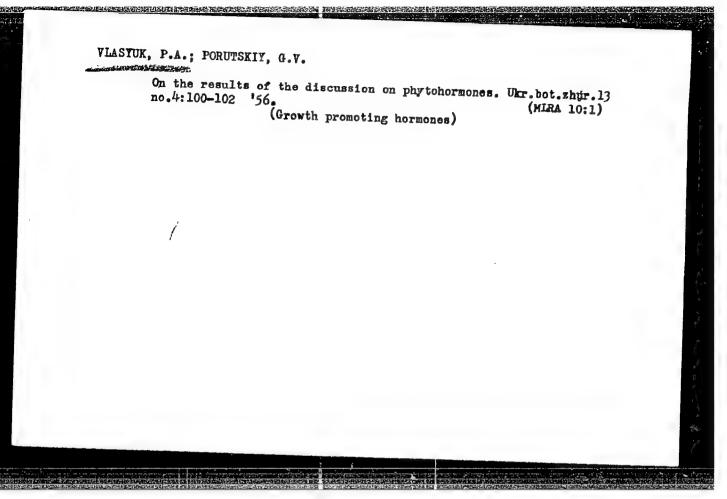
to the different duration of development stages (vernalization, luminous). The advent of stage readiness in the plants which were studied changed under the influence of various conditions of growth (temperature, food reginen). This reflected itself in their polarity. According to the authors, the polar and layer differentiation of the examined biochemical and physiological indexes can serve as a criterion of the stage readiness of plants and of the intensity of blossoming processes.

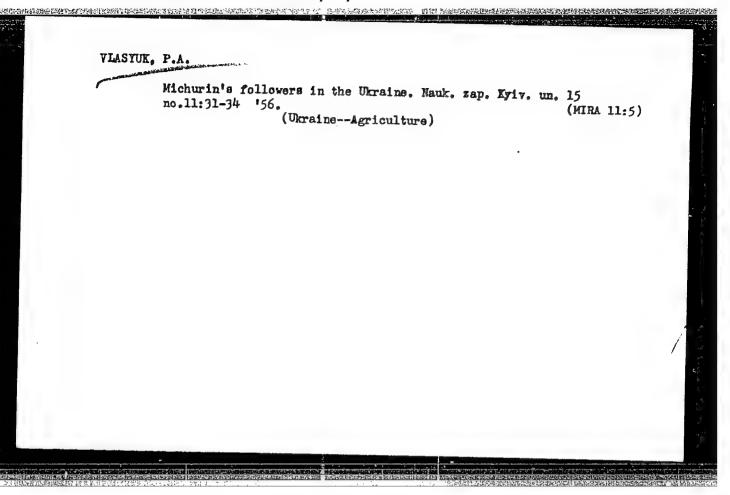
Bibliography, 43 titles. -- G.V. Porutskiv

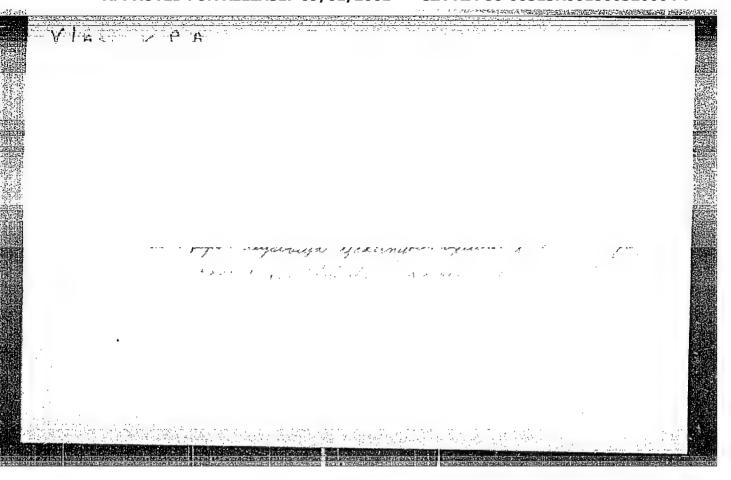
I.

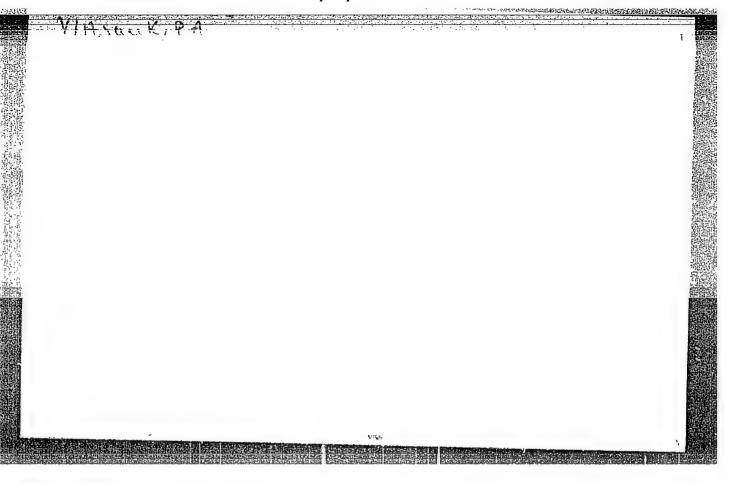
Card 2/2

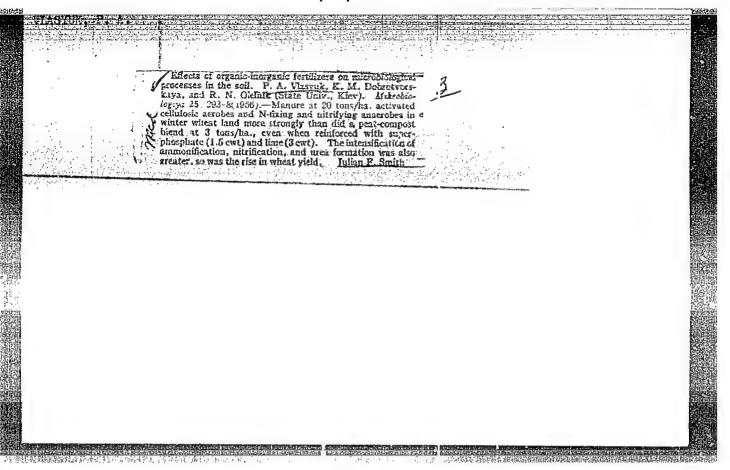
- 5 -

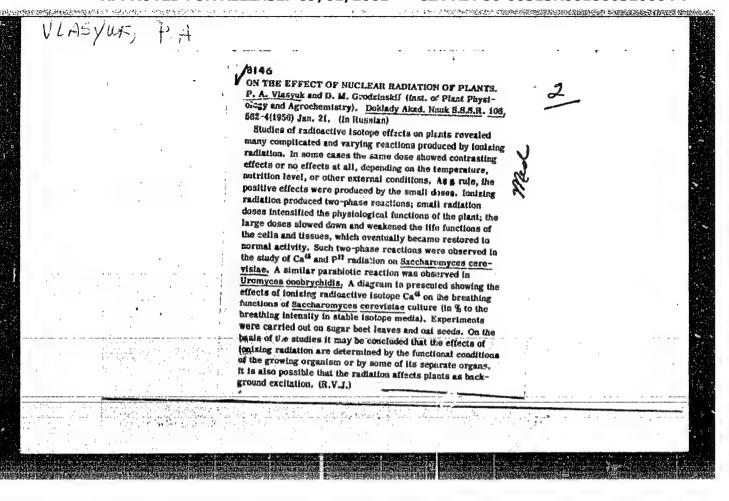


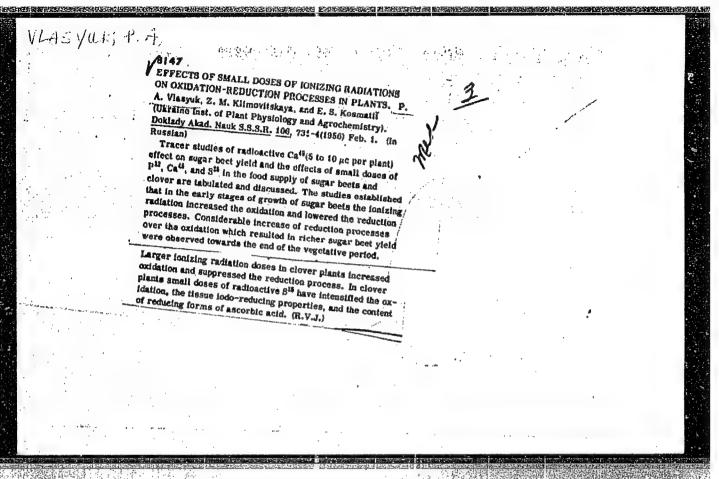












SPIVAK, M.S., glavnyy red.;

SPIVAK, M.S., glavnyy red.; BELOZUB, V.G., red.; VASILENKO, P.M., red.;

ZORIN, I.G., red.; IL'CHENKO, I.K., red.; KOYAL', A.G., red.;

KRYLOV, A.F., red.; PUKHAL'SKIY, A.V., red.; SIDORENKC, A.P.,

red.; FHDCHENKO, A.N., red.; ANGELINA, P.N., red.; BUZANOV, I.F.,

red.; BOYKO, D.V., red.; BURKATSKAYA, G.Ye., red.; VASILENKO, A.A.,

red.; VLASYUK, P.A., red.; GORODNIY, N.G., red.; DEMIDENKO, T.T.,

red.; DUEKOVETSKIY, F.I., red.; KIRICHENKO, F.G., red.; LITOVCHENKO,

G.P., red.; OZERNYY, M.Ye., red.; PERSHIN, P.N., red.; POPOV, F.A.,

red.; POSMITNYY, M.A., red.; PSHENICHNYY, P.D., red.; RADCHENKO,

B.P., red.; ROMANENKO, I.N., red.; RUBIN, S.S., red.; SAVCHENKO,

M.Kh., red.; SOKOLOVSKIY, A.N., red.; TSYBENKO, K.Ye., red.;

KOVAL'SKIY, V.F., tekhn.red.

[Practical collective farm encyclopedia] Kolkhoznaia proizvodstvennaia entsiklopediia. Izd. 2-oe, perer. i dop. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR. Vol.2. Malina-IAshchur. 1957. 923 p. (Agriculture-Dictionaries) (MIRA 11:4)

USSR / Soil Science. Mineral Fertilizers.

J-4

Abs Jour: Ref Zhur-Biol., No 8, 1958, 34385.

Author : Vlasyuk, P. A., Lisoval, P. Z.

Inst : AS Ukrusa.

Title : Increase of Fertility of Soil and Yield in Agricultural Cultivations by Means of Utilizing Org-

anic and Mineral Tertilizers.

Orig Pub: V sb.: Mestn. organ. udobreniya USSR, Kiyev,

AN USSR, 1957, 5-17.

Abstract: Based on experiments conducted on turf-podzolic

sandy loam and meadowy-black earth podzolized soils, the authors claim that application of the organic-mineral system of fertilization secures the most favorable condition for the nutrition of plants and considerably increases the yield. The highest increase in yield was observed by

Card 1/2

USSR / Soil Scionco. Mineral Fortilizors.

J-12

Abs Jour: Ref Zhur-Biol., No 8, 1958, 34385.

Abstract: introduction of manure, mixed with P_S and defec-ation, The offectiveness of action of organic-mineral mixtures increases by adding mangarese and limits residues to 1t, and also by compost-ing organic fortilizers with the mineral. --L. N. Kudryasheva.

Card 2/2

25

. COUNTRY

: USSR

O. M. GORY

: FLANT PHYSICL'GY. Mineral Nutrition.

ABS. JOUR. : REF ZHUR - BIJEJGIYA, NO. 4, 1959.

15292 No.

AUTHOR

Vlasyuk, P.A.

HIST.

apectral Analytic Study of Selective .rcrer-

ties in : lants.

V sb.: Frimeneniye metodov stektroskopii v

ORIG. PUB. : prom-sti prodovol'stv. toverov i s. kh., I.,

LGU, 1957, 51-59

JEFFELOT

. Pasults are reported on a study by the emission-spectral method of the content of macromicro-, and ultramicroelements (34 elements) in all) in various soils and plants cultivaved in different zones of the JSSR. Vegetable cultures selectively absorbed and accumulated (especially in the seed) a notable amount of microelements, although they were not successfully detected in the soils.

. Thus, cucumbers always contained ag, Mo, ib,

CARD:

1/2

2 -

CATEGORI PHYSIOLOGY.

ABS. JOUR. REF ZHUR - BIJLOGIYA, NO. 4, 1959.

AUTHOR
INST.
TITLE

OHIG. HUE.:

APSTRACT: Sn, V, and Su; garlic - V; peppers - Mo, tomatoes - Zr; capbages - I and so; corn kernels - Au. The nature of the soil influenced
the number of micro- and ultramicroelements
in plants. -- N.I. Borisova

2/2

CARD:

: USSR CHITFI : Soil Science. Organic Fertilizers. CATEGRAY 435. JOUR. : EZhBiol., Me. 23 1958, No. 104483 : Ylasyuk, P. A. ATTEMEN -Kharkow Undversky : Improving Plant Butrient Conditions With Brown Coal 1197. FITLE Tailings : V ab.: Guninovyve udobreniya. Khar'kov, Khar'kovok. un-t. opid. FUR. : In absorptive power, brown coal tailings surpass a number of 1957, 127-144 investigated substances and are second only to peat; the , RSTEACT greatest absorption of P was observed for coal tailings of Khustskoye and Yurkovekoye origin; of ammonium, for Yasanovskoye brown coal tailings. The use of brown coal tallings together with mineral fertilizers or manure increases the yield of sugar best, winter wheat, cate, rye, flax, corn and other crops, and noticeably increases the number of nodules on pea. The composting of manure with brown coal tailings caused a 50% decrease in P loss and an increase in the content of an active form of H of up to 117 mg per 100 g of 1/2 Card: 16

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320004-7

COUNTRY		
TATEGORY	; ;	
	: FEMFIOL., No. 23 1762, No. 104487	
AUTHOR	:	
ist.	:	
PITLE		
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orig. Pui.	î .	
	enoil as opposed to 78.8 mg without tailings; best results were obtained when composing manure with 10% brown coal tailings; an increase of the dose to 20% did not immease the effect. The addition of tailings to P when introducing it into the pits increased the cot harvest of corn from 112. to 146.5 centners/hectare; the addition of coal tailings to K for flax cultivation increased the fiber yield from 7.4 to 10.3 centners/hectare and, besides, raised the oil content in the seeds from 43.2 to 53.5%.—S. A. Remizov	
Card:	2/2	

USSR / Soil Science. Mineral Fertilizers.

J-4

Abs Jour: Ref Zhur-Biol., No 8, 1958, 34409.

: Vlasyuk, P. A. Author

: New Aspect of Fertilization - Manganized Super-Inst Title

phosphate.

Orig Pub: Byul. po fiziol. rasteniy, 1957, No 1, 6-10.

Abstract: Manganized Ps is obtained by means of granulation of Ps in powder form with 10 - 15% of manganic slime and 1 - 4% chalk. The fortilizer contains 17.8 to 18.3% of assimilated phosphoric acid, 2-3% of manganese oxides, and its free acidity is 1.7 - 2.7 (instead of 5% in Pg). According to the results of the tests, carried out by experi-

Card 1/2

CIA-RDP86-00513R001860320004-7" APPROVED FOR RELEASE: 09/01/2001

USSR / Scil Science. Minoral Fortilizors.

J-4

a comprehensive province province and the province of the prov

Abs Jour: Ref Zhur-Biol., No 8, 1958, 34409.

Abstract: mental stations, as well as production experiments in collective farms of USSR, the efficiency of manganized P₈ exceeds that of the common granulated P₈. -- T. L. Rivkind.

Card 2/2

33

CIA-RDP86-00513R001860320004-7" APPROVED FOR RELEASE: 09/01/2001

USSR / Plant Physiology. Mineral Nutrition.

I-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72577.

 Vlasyuk, P. A.; Manorik, A. V.
 Ukrainian Scientific-Research Institute of Plant Author Inst

: Admission of Radioactive p32, S35 and C14 in Plants from the Organic and Mineral Forms of Their Com-Title

pounds.

Orig Pub: Byul. po fiziol. rasteniy, 1957, No 1, 20-23.

Abstract: Winter wheat plants were fed with marked P in the phase of tubing; in 7 days they were unearthed and kept for two days in containers with water containing 2 mcuries of p32 in the form of Na₂HP³²O₄. The parts of the plants above ground were used as green fertilizer under buckwheat. Bogatyri buck-

Card 1/3

USSR / Plant Physiology. Mineral Nutrition.

1-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72577.

Abstract: wheat was raised in soil cultures: P³² was introduced in the form of P_C, pure vegetative mass or infected with fresh manure. The accumulation of the raw mass and the weight of seed harvest were greatest in the case of application of mineral P, the least - in those fertilized only with vegetative residue. The admission of P³² with fertilization by vegetative mass without infection was more intensive than with it. During the cultivation of buckwheat on Knop's nutritive mixture, the rate was studied of the admission of S³⁵ (in the form of vitamin B₁ and methionine), Cl4 (in the form of tyrosine and Na₂Cl⁴O₃) and P³² (Na₂HP³²O₄). In the blossoming phase, a rapid admission of organic compounds was observed. Ten minutes after the appli-

Card 2/3

11

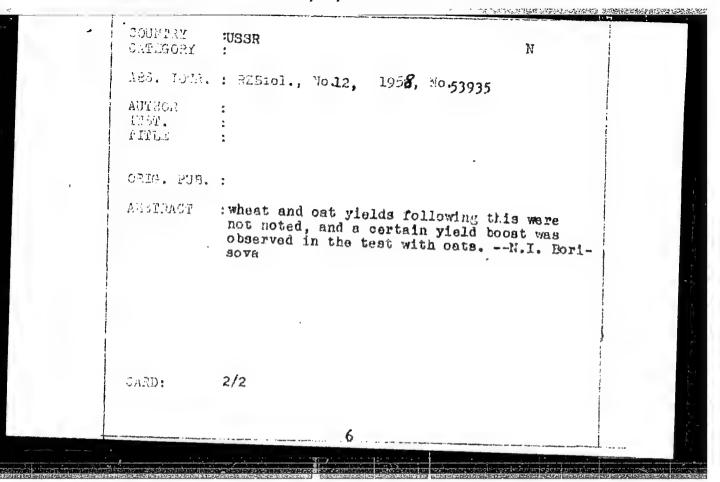
 USSR / Plant Physiology: Mineral Nutrition.

I**-**3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72577.

Abstract: cation of tyrosine in a nutritive solution, the radioactivity of the flowers was highest; in 20-60 minutes, the radioactivity of the leaves was increased, but that of the flowers decreased. In three hours after the application of radioactive substances on the leaves, significant activity of the roots was detected through which methionine moved more intensively than vitamin B₁, and the NO₂CO₃ moved more intensively than the tyrosine. The work was carried out in the Ukrainian Scientific-Research Institute of Plant Physiology. -- B. Ye. Kravtsova.

Card 3/3



VLASYUK, P.; ZAKHARCHUK, P.; KALYUZHNYY, V.; PERESYPKIN, V.

Seventieth birthday of Mikhail Mikhailovich Godlin. Pochvovedenie (MLRA 10:7) no.3:117-118 Mr '57. (Godlin, Mikhail Mikhailovich, 1886-)

USSR/Plant Physiology - Mineral Nutrition.

I.

Abs Jour

: Ref Lhur - Biol., No 23, 1953, 104360

Author

: Vlasyuk, P.A., Kosmatyy, Ye.S., and Klimovitskaya, S. N.

Inst

Institute of Plant Physiology and Agrochemistry, AS

Ukrainian SSR.

Title

: The Effect of Nitrato-Ammoniacal, Nitrogenous and Mania-

nous Mutrition on Sulfur Metabolism in the Sugar Bect.

Orig Pub

: Fiziol. Rasteniy, 4, No 5, 432-439, 1957.

Abstract

: Under conditions of a soil culture and a NPK background, with respect to the sugar beet and wheat, it was established through introducing Na₂S350₄ (50 curies per 16 kg of soil) that, in contrast with P, more S enters into reserve proteins than into the constitutional proteins. Injection into the roots of the sugar beet of aqueous so-

lutions of methionine or vitamin b1 containing S35 caused

Card 1/3

- 8 -

USSR/Plant Physiology - Mineral Nutrition.

I.

Abs Jour : Ref whur - Biol., No 23, 1950, 104360

an intensive translocation of S into leaves, especially the younger leaves, in which connection a major part of S was also included in the reserve proteins. The rate of S metabolism (as determined according to its specific activity and the number of the individual forms of 3) from methionine was higher than from vitamin B_1 , especially with respect to the easily detached S fraction (by Shulits: method). A larger quantity of S entered into organic compounds than into mineral compounds. Compared with ammoniacal nutrition, the nitrate nutrition of the sugar beet favored an increase in the rate of S metalolism. Under the influence of in the rate of metabolism of the inorganic form of 5 changed little, while that of the organic and not easily detachable form of S decreased more so at nitrate nutrition than at ammoniacal nutrition. By means of the paper chromatography method it was established that the amino acid composition of the root

Card 2/3

J

USSR/Soil Science. Mineral Fertilizers

: Ref Zhur-Biol., No 13, 1958, 50337, By N.H. Abs Jour

Sokolov

: Vlasyuk P. A., and Butkevich A. P.

: All-Union Academy of Agricultural Sciences imeni Author Inst

: Significance of Soil Microflora in the Manganese Title

Nutrition of Plants

: Dokl. VASKhNIL, 1957, No 5, 3-9 Orig Pub

: The Ukrainian Scientific-Research Institute of Plant Physiology conducted vegetation experiments Abstract

by growing oats, sugar beet, and flax with and without rhizospheric microflora of these plants in sandy cultures with the following variants:
a) without Mn,b) MnO₂, c) MnSO₄--1 norm; d).

Card 1/2

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320004-7

USSR/Soil Science, Mineral Fertilizers

J

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58337, By N. N.

Abstract : ${\rm MnSO}_4{\rm --}10~{\rm norms}$. Rhizospheric microflora removed

the harmful effect of either the insufficiency or excess of Mn and contibuted to the mobility

of Mn in the variant with MnO2.

Editorial remark: $Fe(SO_4)_3$ and H_2BO_5 are mistakenly indicated as components of VNÍS nutritive medium. They should read $\text{Fe}_2(\text{SO}_4)_3$ and H_3BO_3).

Card 2/2

19

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320004-7

USSR / Plant Physiology. Mineral Nutrition.

I-3

Abs Jour

: Ref Zhur - Biol., No 10, 1958, No 43729

Author

: Vlasyuk, P. A.; Kosnatyy, Ye. S.; Klinovitskaya, Z. M.

Inst

: Kiev Institute of Plant Physiology, AS USSR

Title

: The Effect of Nitrate, Phosphorus, Potassium and Manganese

Nutrients on Phosphorus Metabolism in the Sugar Beet.

Orig Pub

: Izv. AN SSSR, Ser. biol., 1957, No. 5, 611-616

Abstract

: A vegetative experiment (repeated five times) with the use of P33 made at the Kiev Institute of Plant Physiology, showed that in the sugar beet culture Mn both on a nitrate ground and a ground of amonium nitrogen nutrient increased the speed of the metabolism of P with RNA and DNA, as well as the P fraction of "nucleic acids plus phosphoproteins". The P metabolism speed of phospholipids and mineral phosphates was reduced under the influence of Mn on an amonium nutrient ground and increased on a nitrate one. The P metabolism rate at a low phosphorus nutrient level reached

Card 1/2

9

VLASYUK, P.A.

USSR / Cultivated Plants. Plants for Technical Use. Oil Plants. Sugar Plants.

Abs Jour

: Ref Zhur - Biol., No 8, 1958, No 34771

Authors

: Vlasyuk, Pi A.; Shmat'ko, I. G.

Inst Title : All-Union Scientific Research Institute for Sugar Beets : Effects of Liquid Nitric Fertilizers on Seed Productivity.

Orig Pub

: Sakharnaya svekla, 1957, No 6, 17-19

Abstract

: Crop experiments conducted during the year 1956 by the All-Union Scientific Research Institute for Sugar Beets at the Kapitonovskiy sugar combine in the district of Cherka mokaya over an area of 18 hectares on medium-leached . black earth ascertained the relative effects of liquid and solid nitric fertilizers, used on phosphate-potassic bases, on the productivity of sugar beet transplantation. To one hectare were added: potash salt (32% K20) 1 hwt; superphosphate 2.7 hwt; nitric acid of ammonia 1 hwt. All fer-

Card 1/2

USSR / Cultivated Plants. Plants for Technical Use. Oil Plants. Sugar Plants.

М

1bs Jour : Ref Zhur - Biol., No 18, 1958, No 34771

以此处理,可以是是一种,不是一种,可以是一种,可以是一种,可以是一种,可以是一种,可以是一种,可以是一种,可以是一种,可以是一种,可以是一种,可以是一种,可以是

tilizers were added as side-dressing Liquid ammonia (82.3% N) was inserted into the soil by means of special machines to a depth of 12 cm. Liquid ammonia increased the soil acidity to a greater extent than nitric acid of ammonia. At the period of blooming, the intake of N into the balls and fruit stem leaves was most intensive under the action of the liquid ammonia; that of P, as a result of the added ammonium nitrate. The seed crop under the action of ammonia was by 1 to 2 hwgt per hectare larger than when using nitric acid ammonia. Thus, it could be concluded that liquid ammonia, when compared with all other nitric fertilizers, appears to be the best form of fertilization for the enriching of seed cultures of sugar beets. — Smirnov.

Card 2/2

103

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320004-7

ביילונגיר: Fi *USSR ECULTIVATED PLANTS, POTATOES, Variatibles. Satagory Cucurbits. Mos. Jour. : Mar ZHUR-BIOL., 21,1953, ND. 95004 : Masyuk E.A.; Derev'yanko,S.I.; AS Ukrainian CSR Author Institut. The Effects of Different Forms of Potassium Fer-Citle tilizers on the Physiologico-Biochemical Processes Yield and Quality of Tomatoes and Potatoes Grown* Orig. Twb. : Vienik AN URSR, 1957, No.9, 42-52 : In tests conducted with the mid-season maturing Krasnodarets variety tomato and Lorkh potato under irrigation, an investigation has been made of the activity of ferments and respiration, the accumulation of ascorbic acid, sugar and chlorophyll, the change in moisture, as well as the Cl, S and K contents. Kc and potassium-magnesium increased the vitamin C and dry matter content in tomato fruits from 4.8-5.0 (in the control) to Abstract tomato fruits from 4.8-5.0 (in the control) to * Under Irrigation Card: 62

"APPROVED FOR RELEASE: 09/01/2001 CI

CIA-RDP86-00513R001860320004-7

Country M Caregory COULTIVATED PLANTS, POTATOES Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-96004 Author maniput. : Title Orig. Pub. : : 5.4-5.8. All forms of K reduced the acidity of the fruit and favorably affected the water balance Abstract in the plants. The synthesis of chlorophyll in the tomato leaves and potato leaves increased only with the application of potesh-magnesium and Kc. The latter produced the ortinum respiration rate in the potato leaves. Potassium fertilization did not show any effect on a number of biochemical processes. Tomato yield boosts of 28.9, 26.8, and 18.2 cwt/ha. were obtained over the 226.2 of the 2/3 Card:

USSR / General Biology. Physical and Chemical Biology.

: Ref Zhur - Biol., No 19, 1958, No. 35491 Abs Jour

Author

Inst

: <u>Vlasyuk, P. A.</u> : All-Union Academy of Agricultural Services imeni

V.I. Lenin.

Title

: Basic Mechanisms of Biological Effects of Small

, Doses of Muclear Irradiation.

Orig Pub

: Dokl. VASKhNIL, 1957, No 10, 8-14

Abstract

: A review of studies on the effects of irradiation with radioactive isotopes on different agricultural crops under conditions of vegetative and field experiments, conducted by the Institute of Plant Physiology of the Ukrainian Academy of Agricultural Sciences, beginning in 1950. With indicator doses of P32, S35, Ca45, Zn65 and

Card 1/3

USSR / General Biology. Physical and Chemical Biology.

3

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 85491

Co⁶⁰, applied for pre-sowing treatment of seeds (by maceration in solutions of salts of these isotopes) or for extra root plant feeding at different stages, a considerable increase in productivity was attained in the great majority of the cases and in improvement in the quality of various crops (sugar beets, tomatoes, winter wheat, barley, rye, corn, clover, lupine, potatoes, grapes, tea, kok-saghyz). It was established in a number of experiments that even under unfavorable environmental conditions (lowered temperature, poor insulation) there is a positive effect of radioisotopes on plants. Investigations of the biological activity mechanism of ionizing radiations have shown that the responsive reaction of the living

Card 2/3

1

 VIASYIK PSA, akademik; DOBROTVORSKAYA, R.M., kandidat sel skokhozynystvennykh nauk; GOHDIYENKO, S.A.

Intensity of ferment action in the rhizosphere of various agricultural plants. Dokl. Akad. sel-khoz. 22 no.3:14-19 57.

(MLRA 10:6)
1. Ukrainskiy nauchno-issledovatel skiy institut fiziologii

rasteniy.

(Rhizosphere microbiology) (Enzymes)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320004-7

(MLRA 10:9)

WLASYUK, P.A., akadenik; BUTKEVICH, K.P.

Role of soil microflore in the manganese nutrition of plants.

Dokl. Akad.sel'khoz. 22 no. 5: 3-9 '57.

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy. (Rhizosphere microbiology) (Manganese) (Plants--Nutrition)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320004-7

: Wlasyut, T.D.

Library Constitution of the Constitution of th

VLASYUK, P.A., akademik.

Principle consistent manifestations of the biological action of small doses of nuclear radiation. Dokl. Akad. sel'khoz. 22 no.10: 8-14 57. (MIRA 10:12)

(Plants, Effect of radioactivity on)

VLASYUK, P.A.; DEREV'YANKO, S.I.

Effect of various potassium fertilizers on physiological and biochemical processes, yield and quality of tomatoes and potatoes in irrigation farming. Visnyk AN URSR 28 no.9:42-52 S '57.

(MIRA 11:1)

(Fertilizers and manures) (Irrigation farming)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320004-7

Ţ Country : USSR Category : Plant Physiology. Mineral Nutrition. Abs Jour. : Ref. Chur.-Siologiya No. 11, 1950. Mc.48539 Author : Vlasyuk, P.A.; Porutskiy, C.V.; Cherednichenko, S.V. Institute : Aced. Sciences USSR : Non-Root Side-Dressing with Thiamine and Plant Title Growth duving Florescence Orig. Fub.: Dokl. AN SSSR, 1957, 112, No. 4, 769-771 Abstract : Top-dressing corn with thiamine during the flower t ing period (in field experiments with both stable and radioactive preparates) stimulated the vertical growth of the stalks and intensified the growth of the reproductive organs during flowering, yielding a slight boost in the grain harvest. A direct correlation was noted between the plant and the activity of the volatile organic secretions of the plants, which was determined by 1/2 Card:

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320004-7

Country: USSR
Category: Plant Physiology, Mineral Nutrition.

Abs. John: Ref. Zhur, -biologiya No. 11, 1958. No. 48539

Author: Institute: Title:
Orig. Pub.:

Abstract: measuring the geotropic flexure they had produced.
--N.I. Porisova

Cerd: 2/2

VLASYUT, P.A.

USSR/PlantPhysiology - General Problems.

I.

Abs Jour

: Ref Zhur - Biol., No 18, 1958, 81961

Author

: Vlasyuk, P.A., Porutskiy, G.V., Cherednichenko, S.V.,

Dolgiy, S.N.

Inst

: AS USSR

Title

The Influence of Extra-Root Fertilization on the Increase

of Germination of the Seed Material.

Orig Pub

: Dokl. AN USSR, 1957, 113, No 1, 214-216

Abstract

Extra root fertilization with solutions of common (0,005%) and radioactive (2.5 M curie per plant) thiamine of p31 and p32 (10⁻⁴ M curie on a plant) was carried out by spraying from an airplane or a tractor sprayer. The doses were calculated on the basis of 200-400 l/ha. These experiments took place in field and industrial tests dur-

ing the blossoming of corn and winter wheat.

Card 1/2

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320004-7

USSR/Plant Physiology - General Problems.

I.

Abs Jour : Ref Zhur - Biol., No 18, 1958, 81961

The dose of radioactive substances caused an increase in the energy of seed germination after the phase of wax ripeness. The reason for this increase is the earlier advent of physiological maturity as well as the shortening of the time of restoration of the changes in the bioelectrical potential (responding to a weak electrical stimulus), while conserving the capacity for synthesis of thiamine. These experiments were carried out at the Institute of Plant Physiology and Agricultural Chemistry at the AS UkrSSR. -- B.E. Kravtsova

Card 2/2

- 3 -

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VLASYUK, Petr Antinovich [Vlasiuk, P.A.], akademik; SIROCHENKO, I.A., prof., red.; TUBOLEVA, M.V. [Tubolieva, M.V.], red.

[New microfertilizers] Novi mikrodobryva. Kyiv, 1958. 42 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh snan' Ukrains'koi RSR, Ser.3, no.8) (MIRA 12:3)

(Trace elements)

VLASYUK, P.A., akademik; ZEROV, D.K., akademik; PSHENICHNYT, P.D., akademik; ROMANENKO, I.N., akademik, otvetstvennyy red.; MOVCHAN, V.A.; RODIONOV, S.P.; TYLENEV, N.A.; DAVYDOV, G.M., kand. ekon. nank; KUGUKALO, I.A., kand. ekon. nauk; BEREZIKOV, V.S.; FEDUN, A.D.; GRUDZINSKAYA, O.S., red. izd-va; YURCHISHIN, V.I., tekhn. red.

[Natural conditions and resources of the Polesye; transactions of the Conference on Problems of the Development of the Productive Forces of the Ukrainian Polesye] Prirodnye usloviia i resursy Poles'ia; trudy konferentsii po voprosam razvitiia proizvoditel'nykh sil Poles'ia USSR. Kiev. Pt.1. 1958. 123 p. (MIRA 11:7)

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2. Akademiya nauk USSR (for Vlasyuk, Zerov). 3. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for Vlasyuk, Pshenichnyy, Romanenko). 4. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for Vlasyuk). 5. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for Romanenko). 6. Chlen-korrespondent akademii nauk USSR (for Movchan, Rodionov, Tyulenev). 7. Zamestitel' nachal'nika otdela svodnykh perspektivnykh planov Gosplana USSR (for Berezikov). 8. Nachal'nik podotdela sel'skogo khozyaystva otdela svodnykh perspektivnykh planov Gosplana USSR (Fedun).

(Polesye--Natural resources)

ROMANENKO, I.N., akademik, otvetstvennyy red.; VLASYUK, P.A., akademik, red.; ZEROV, D.K., akademik, red.; RODIOHOV, S.P., red.; TYULENEY, N.A., red.; PSHENICHNYY, P.D., akademik, red.; DAYYDOV, G.M., kand. ekor. nauk, red.; KUGUKALO, I.A., kand. ekon. nauk, red.; BEREZIKOV, V.S., red.; FEDUN, A.D., red.; KOZAKEVICH, T.A., red. 1zd-va; SIVACHENKO, Ye, K., tekhn. red.

[Problems in the economy of Polesye; transactions of a conference]
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3. Ukrainskaya Akademiya sel'skokhozyaystvennykh nauk (for Vlasyuk,
Romanenko, Pshenichnyy). 4. Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vlasyuk). 5. Chlen-korrespondent
Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina
(for Romanenko). 6. Chlen-korrespondent Akademii nauk USSR (for
Rodionov, Tyulenev). 7. Zamestitel' nachal'nika otdela svodnykh
perspektivnykh planov Gosplana Soveta Ministrov USSR (for Berezikov).
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svodnykh perspektivnykh planov sel'skogo khozyaystva Gosplana
Soveta Ministrov USSR (for Fedun).

(Polesys--Economic conditions)

VLASYUK, P.A., akademik, red.; ROMANEMKO, I.N., akademik, red.; RODIONOV, S.P., red.; TYULEMEV, red.; PSHEMICHMY, P.D., akademik, red.; DAVYDOV, kand.ekon.nauk, red.; KUGUKALO, I.A., kand.ekon.nauk; BEREZIKOV, V.S., red.; FEDIN, A.D., red.; KOZAKEVICH, T.A., red. izd-va; SIVACHEMKO, Ye.K., tekhn.red.

[Proceedings of the Conference on Problems in Developing Production in Polesye] Konferentsiia po voprosam razvitiia proizvoditel'nykh sil Poles'ia USSR. Kiev, 1955. Pt.3 [Problems in the development of agriculture in Polesye; stockbreeding and feed supply, land improvement and reclamation of swamps] Voprosy razvitiia sel'skogo khoziaistva Poles'ia; zhivotnovodstvo i kormovaia baza, melioratsiia i osvoenie bolot. Kiev, Izd-vo Akad. nauk USSR. 1958.

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(Polesye--Agriculture)

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- L		Vlastuk P.A. and M.A. Gurileya (Okrainian Soisntific Research Institute for Plant Physiology) Special Peatures of the Wintering Over of Winter Crops in 1955-56 in Various Regions of the USSR 31
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"APPROVED FOR RELEASE: 09/01/2001

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	SOV/2384 Konferentitys po agrometeorologii i agrokitantologii Unrainskoy SSR Materily konferentaii. (Material of the Conference on Agricultural Materily konferentaii. (Material of the Conference on Agricultural Materilogy and Citantology of the Unraining SSR) Leningrad, partneed. 700 copies printed.	Sponsoring Agencies: USSN. Glawnoye upravienty gidromateorologichesis a signiby. Ucrainian SSN. Ministerstor cell since though the previous signiby. Ucrainian SSN. Ministerstor cell since the top the previous situity. Ucrainian saledowisel skiy gidrometeorologichesky in situit, and Uprainianya akademiy sel'shoknozianysterentyth hait. Mai. Brannia. Wai. Brannia. Fineca: This book is intended for agriculturists, agrometeorologists, and instructors in related warsa. COVERNOS: This collection of articles deals with problems in agricultural meteorology in the Ubrains. Among the topics discussed cultural meteorology in the Ubrains. Among the topics discussed are winter drops, corn cultivation, posts to degeneration, moisture supply, and adverse weather factors. TANIR OF CONTENTS:	Cuttons Singiltance of Planting Time For the Wintering of Winter Cuttons Singiltance of Planting Time For the Wintering of Winter Cuttons Steppe Megical Conditions in the Uncost Morthern Lesstep (Porested Steppe Megical Conditions of Critical Temperatures in Forecasting the Wintering Conditions of Critical Temperatures in Forecasting the Wintering Conditions of Critical Temperatures in Forecasting the Muter Muter Corp. Forecasting the Reaction of the Various drades of Winter Spring President Femperatures of the Winter and Early Spring Feriods Qurillara M.A. and M.A. Esdonous. Results of Checking the Nethod for Determining the Winter Crops by the Conditions of the Westalius of the Winter Crops by the Conditions of the Westalius Che Westalius of the Westalius Cheek Crops by the Conditions of the Westalius Cheek Crops by the Conditions of	Covenho, M.Q. [Unrainian Scientific Research Hydromet, Institue] Modsture Reserves of Various Climatic Soil Zones of the Unraine 100 Temets, Q.W. [All-Union Scientific Messarch Institute for Study of Card 4/7	
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USAN/Soil Science. Organic Fertilizers

J-5

Als Jour : Ref Zhur - Biol., No 20, 1958, No 91486

Author : Vlasyuk P.A., Darmenko M.S., Monorik A.V.

Inst Title

: The Effectiveness of the Use of Industrial Brown Coal Waste

for Various Agricultural Crops

Orig Pub: Byul. po fiziol. restemiy, 1958, No 2, 48-52

Abstract : No abstract

Card

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VLASYUK, P.A.: LENDENSKAYA, L.D.

基礎關鍵模式等的主要的表面的主要的

Polar distribution of manganese in different parts of organs of wheat and corn plants [with summary in English]. Fiziol.rast. 5 no.6: 488-493 N-D '58. (MIRA 11:12)

Institut fiziologii rasteniy Ukrainskoy SSR, Kiyev.
 (Polarity (Biology)) (Plants, Effect of manganese on)
 (Plants, Motion of fluids in)

VLASYUK, P.A., a kademik; GURIL'OVA, M.A. [Huryl'ova, M.A.], hand.biol.

Winter hardiness of plants. Nauka i zhyttia 8 no.3:23-25 Mr '58. (MIRA 12:9)

1. AN USSR i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina (for Vlasyuk). (Plants-Frost resistance)

SOV-21-58-8-22/27

AUTHORS:

Vlasyuk, P.A., Member of the AS UkrSSE, and Lisoval, P.Z.

TITLE:

Effect of Various Forms of Potassium Fertilizers on the Yield of Farm Crops (Vliyaniye razlichnykh form kaliynykh udobreniy

na urozhay sel'skokhozyaystvennykh kul'tur)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 8,

pp 887-890 (USSR)

ABSTRACT:

With the aim of establishing the best conditions of nutrition and in raising the yield of plants, the authors studied various forms of potassium fertilizers from deposits of the western regions of the Ukrainian SSR on permanent fields of the Ukrainian Research Institute for Plant Physiology and temporary fields at the Irpen' river and at the Kherson research station. As a result of many years of research, they arrived at the conclusion that to obtain high yields and a better quality of farm produce, both for grain and technical as well as for vegetable and fodder crops, it is essential to utilize not only chloride but sulfate and sulfate-magnesian forms of

potassium fertilizers and their combinations.

Card 1/2

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There are 6 Soviet references.